TAMROCK LOADERS INC.

ELECTRICAL PERMISIBLITY CHECKLIST

MODEL EJC 80 LOAD HAUL DUMP

Vehicle Approval No. **31-121**
Safety System Certification **31 D 111**
Vehicle Serial N-umber _____

(WEEKLY) WHERE SHOWN ON THE FOLLOWING PAGES DESIGNATES THOSE INSPECTION CHECKS THAT MUST BE PERFORMED DURING THE WEEKLY MAINTENANCE EXAMINATION IN ACCORDANCE WITH 30 CFR. SECTION 75.1914

GENERAL PERMISSIBILITY CHECKS:

(WEEKLY) 1. ( ) All electrical enclosures have an MSHA plate clearly stamped with MSHA certification numbers (X/P number). These numbers agree with those listed in Table 1.

TABLE 1

Enclosure	Machine Diagram Item #		X/P Number	Allowable Max. Clearance, inches
Alternator	1		1622-4	.006
		Or	3333-0	
Light Switch	2		2166	.003
		Or	2456-0	
Headlight	3		3493-0	.002
		Or	3493-1	
			1468-16	N/A
		Or	1468-30	N/A
		Or	1468-31	N/A

(WEEKLY) 2. ( ) All electrical enclosures are intact (not cracked or broken); the headlight lenses are not loose.

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3. ( ) All joints forming the flame arresting paths (flanges and covers) are smooth and free from rust, corrosion, and pitting.

(WEEKLY) 4. ( ) All packing nuts and stuffing boxes are secured from loosening by a locking screw, wire, or other means (Fig. 1),. All unused lead entrances are closed with metal plugs which are secured in place by spot welding, brazing, or equivalent (Fig. 2).

(WEEKLY) 5. ( ) All threaded covers are secured from loosening by a locking screw, wire or other means (Fig.2).

(WEEKLY) 6. ( ) Light Switch Cover has a maximum clearance of .003" between mating surfaces (.004" feeler gage cannot be inserted, Fig.3). The bolted alternator cover has a maximum clearance of .006" between mating surfaces (.007" feeler gage cannot be inserted, Fig.4).

(WEEKLY) 7. ( ) Lockwashers or equivalent devices are provided for <u>all</u> bolts, screws, or studs that secure parts of the explosion-proof enclosures.

(WEEKLY) 8. ( ) None of the fastenings for joints on the explosion-proof enclosures are used for attaching nonessential parts or for making electrical connections.

(WEEKLY) **9.** **( )** Each headlight is securely fastened, guarded and operable.

(WEEKLY) 10. <u>Cables between the electrical system components,</u>

a. ( ) Clamped in place to prevent undue movement.
b. ( ) All cables are in flame-resistant conduit.
c. ( ) The conduit is securely clamped at both ends and MSHA markings are present and appear as "Flame-Resistant, US MSHA (US MESA or USBM) 2G-(number)."
d. ( ) All electrical hose conduit is not subject to abrasion from sharp corners.
e. ( ) All electrical hose conduit is isolated from fuel lines, hydraulic lines and hydraulic components.

(WEEKLY) 11 ( ) All lead entrances (packing glands) are assembled so that the cable jacket penetrates into the enclosure and when tightened, a 1/8 inch clearance remains between the packing nut and the stuffing box (Fig. 2).

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(WEEKLY) 12. ( ) Start the engine and operate the headlight switch. The switch controls the operation of the front and rear headlights and the headlights are "off" when the switch is placed in the off-position.

(WEEKLY) 13. ( ) Headlights are protected by location or guards.

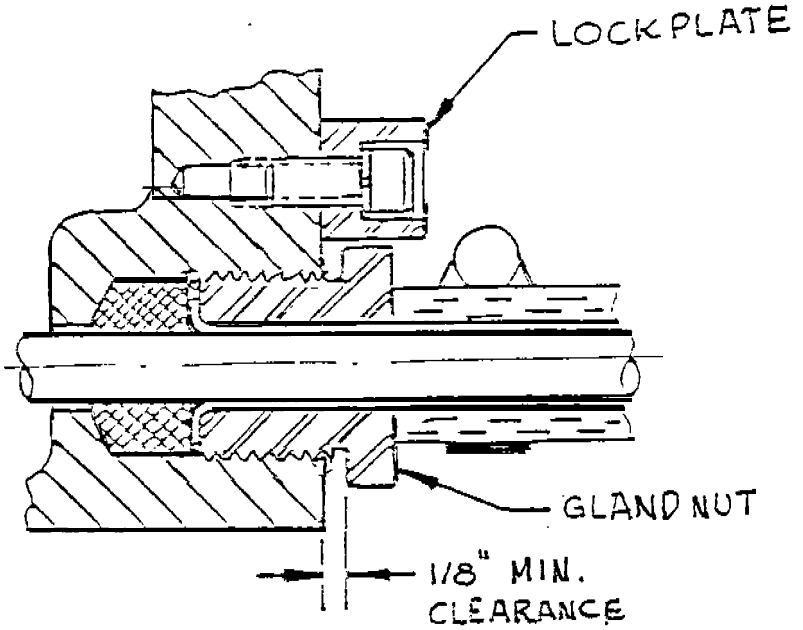

FIG. 1

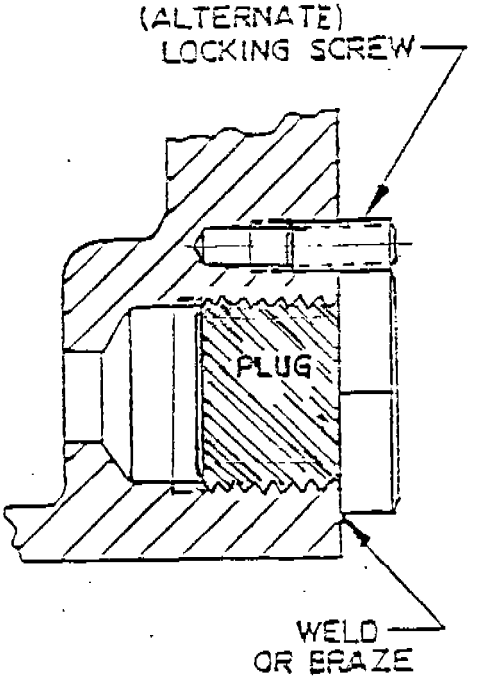

FIG. 2

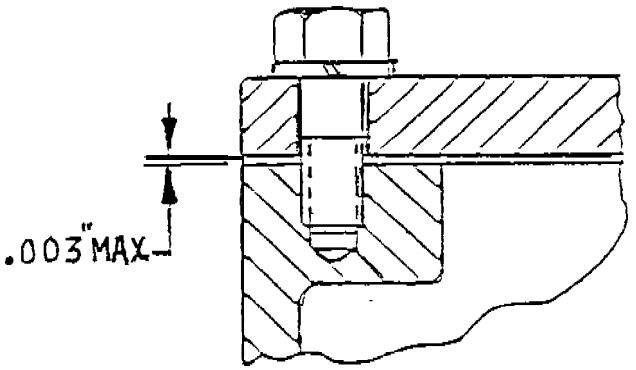

FIG 3

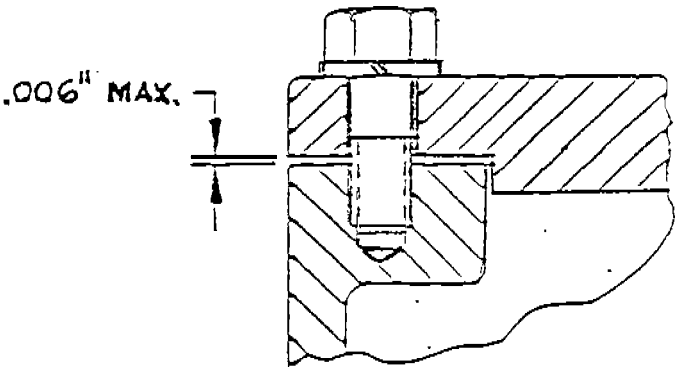

FIG 4

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OTHER PERMISSIBILITY CHECKS:

The following checks may be preformed when an electrical enclosure has been disassembled for whatever reason, or if there is cause to believe a problem exists within the enclosure.

1. ( ) Electrical connections inside the electrical enclosures are secure (not loose) and are insulated where space is limited. In addition each headlight unit is electrically "grounded to the machine frame by a separate conductor. The ground wires are not broken and are securely attached to each headlight unit.

   To verify the above, remove the electrical enclosure covers; disconnect the ground wire attached to each headlight unit; use an ohmmeter or similar device to verify continuity between the ground wire and the frame of the machine for each headlight.

2. ( ) The engine-driven alternator lighting system includes a two-pole switch which controls the operation of the headlight, The switch is wired such that all power conductors in the cable supplying electrical energy to the headlight units are deenergized when the switch is placed in the "off' position."

   To verify the above, remove the cover from the electrical enclosure housing the headlight switch; remove the two main power wires (from the alternator) from the switch terminals; place the switch operator in the "off' position; use an ohmmeter or similar instrument to verify that the input power wire terminals on the switch are disconnected from all other wires attached to the switch terminals; reconnect the power wires to the switch terminals.

3. ( ) Fuses are installed, in the wiring located inside the alternator housing, for short circuit protection of each power conductor of the alternator cable.

   To verify the above, disassembly the alternator enclosure; examine the wiring and each fuse; verify that a fuse, not exceeding 15A is installed in each power conductor of the alternator cable.

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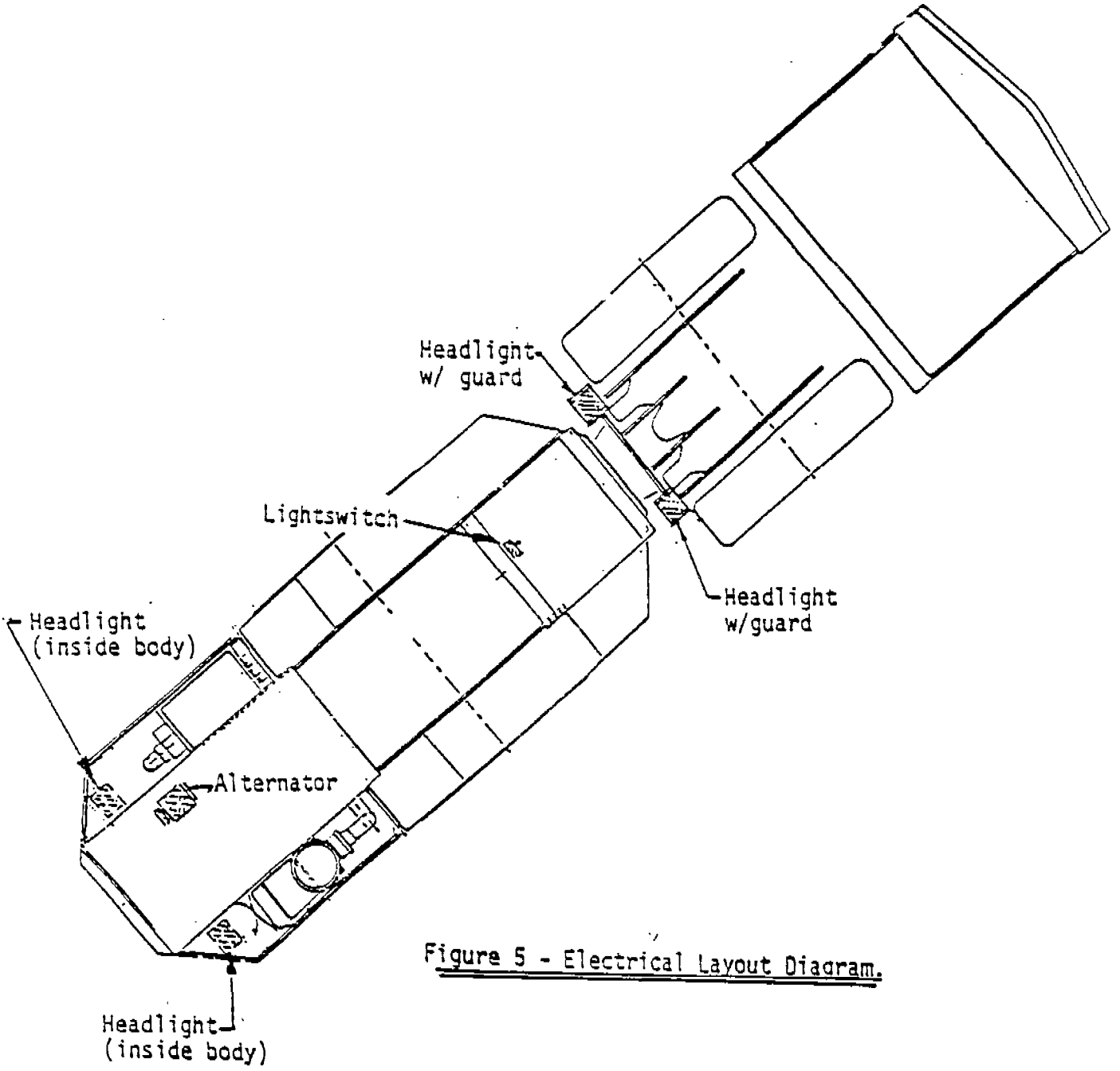

Figure 5 - Electrical Layout Diagram.

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